FEDDZ®

Fast electric drive dynamicz.

Version: 1.1 / December 2013

User manual

English

Contents

- General Information 3
- The FEDDZ schematic diagram 4
- Unpacking instructions 5
- Battery charging and mounting 6/7
- Handling and storage of the battery 8
- Disk brake adjustment 9
- Handlebar controls, left/right 10
- Display and gauges 11
- Starting directions 12/13
- Suspension 14
- Seat height adjustment 15
- Foot rest 16
- Tires 17
- Procedure when not in use 18
- Technical data/Guarantee 19/20
- Contact and Partner 21

General Information

Congratulations for choosing to view the world from a different angle, with a perspective of environmental responsibility and conserving our resources.

The quiet way into the future

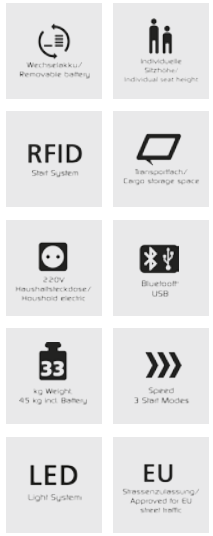
This handbook contains information on the proper use and maintenance of your new FEDDZ. For your maximal safety and comfort, we recommend that you carefully read the entire handbook before your first use.

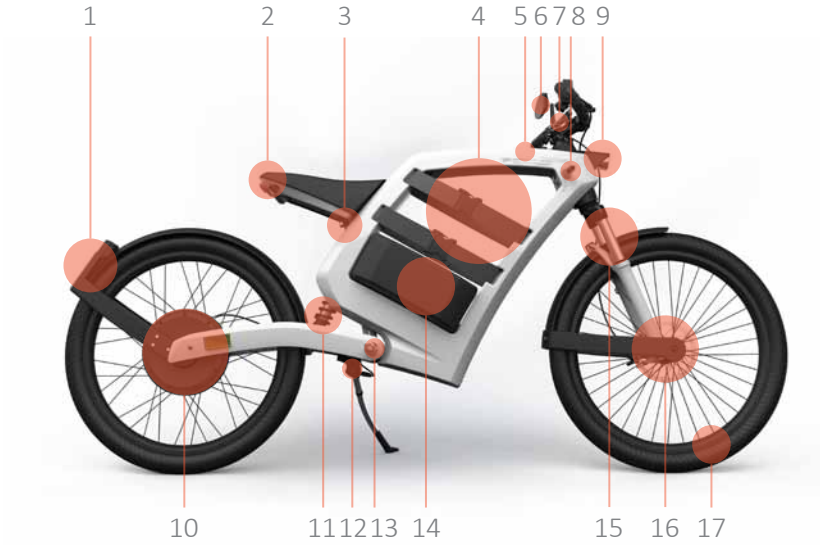
Conditions for ensuring the correct function, maintenance and optimal performance of your FEDDZ include using professional service, following all driving and maintenance instructions and conducting all recommended inspections by your authorized FEDDZ dealer.

We wish you a safe and accident-free ride!
Your FEDDZ Team

The FEDDZ schematic diagram

1- License plate holder and mud guard
2- LED rear lamp with brake light and blinker
3- Adjustable seat
4- Storage compartment belt with closure
5- RFID- digital start system
6- Adjustable rear mirror left
7- Digital Display
8- LED front blinker
9- LED-front head lamp
10- Rear wheel hub drive electric motor
11- Rear suspension
12- Kickstand with auto-stop function
13- Anodized aluminum foot rest
14- Battery Eco or Premium
15- Fork suspension: Manitou 80 mm excursion
16- Disk brake: Magura Hydraulic MT4
17- Tires: 26“ Schwalbe Crazy Bob





Unpacking your FEDDZ

The FEDDZ is delivered completely functional and ready to go.

The plastic parts have been protected during the transportation with a plastic foil which can be easily removed. Please confirm that everything is present upon unpacking. Were the correct battery (ECO/ premium) and a charger included?

Unpacking will take less than 5 min and only the handlebar needs to be turned into position and secured. To do this, loosen the two screws left and right of the handlebar head and turn the handlebar into place at a right angle to the frame. Tighten the two screws using an Allen wrench.

The torque for these screws is usually 5 NM; please observe the instructions located on the stem, which are obligatory.

The battery is delivered with a 20% charge, such that you can drive directly after unpacking to confirm that everything is working well. We recommend fully charging the battery prior to a longer drive. Should it not be possible to start using your FEDDZ after delivery, the battery should be fully charged before use. Please follow the instructions regarding battery charging below.

The packing box should be retained in case there are any guarantee claims, so that it can be used again for the return shipment. We will take care of the transport once you have contacted us with regard to the claim and to clarify the pickup.

Battery charging and mounting

To charge the battery you need a normal 230V-oulet having a 16A-fuse or circuit breaker. First, connect the DC-plug on the bike, then the plug into the electric outlet.

The DC-plug of the charger is magnetically and polarity secured, i.e. it finds the correct position when turned in the connector until the right position is reached. Please pay attention that the DC-plug is clean. Even a little bit of dirt can prevent a good connection, so that the battery will not charge correctly.

The switch on the battery charger should be turned on only when both ends have been properly connected. The charger then shows that it is working properly by the alternating blinking of its lamp diodes. As soon as the charging has been successfully initiated, the lamp “charging” will stay on and, depending on the amount of charging necessary, this can last several hours. The charger will turn off automatically, such that the battery cannot be overcharged.

After charging, the LED Lamp „full“ is turned on indicating that the battery is fully charged and ready for use. The amount of charge in the battery can be checked using the main display. Should a red lamp indicating “error” turn on, please contact us immediately.

Caution: Danger to life through electric shock!

Never open the charger, and only allow a professional to service the unit!

Battery charging and mounting

The battery can be charged either while on the FEDDZ or dismounted and where ever is convenient. If still mounted on the bike, the bike should be turned off. To check how far the charging procedure is, you can turn on the FEDDZ and check the main display to see how much time is still needed.

To remove the battery you need to open the key-operated switch on the right side of the bike and lift the battery from the bike using the handle. This should also be done with the bike turned off.

When replacing the battery be sure that the charger connection is on the left side of the bike (in relation to the driving direction). Bring the battery into place and let it slide into place without force. The connection will be correctly poled automatically. When successfully mounted, there will be a quiet peep tone.

In rare occasions, the plug can become bent. This may not allow the correct contact and prevent the bike from being turned on. In such cases, lift the battery slightly and move it back and forth carefully until it is correctly inserted and the peep tone is heard. Such twisting of the plug can be seen if you look from the side under the battery box.

Attention: Never push the battery into its holder with force!

Handling and storage of the battery

The battery of the FEDDZ is delivered with a charge of approximately 20-30%. This should be sufficient for testing the proper function of the FEDDZ after being unpacked with a short test drive, to detect any possible transportation damage.

The next step should then be to completely charge the battery before further use, a process that can take 6-10 hours.

Once the charger indicates that the process is complete, turn on the FEDDZ using the red main switch and check the battery indicator on the main display. This should indicate of charge of 97-99%. Lower values indicate an incomplete charge.

In this case, check the connection between the charger and the battery. Turn off the charger and wait until the LEDs are turned off. Turn on the charger once again and see if it starts with a new charging cycle.

Please be sure that the battery does not fall below a charge of 20-30% particularly when the FEDDZ will not be used for a longer period of time. This may result in a complete discharging of the battery which can damage it, a damage that is the responsibility of the owner. If the FEDDZ will not be used for some time, it is best to fully charge the battery and remove it for storage until further use where it does not become too cold.

Adjustment of disk brakes

After the first 10-12 km of driving, the disk brakes should be adjusted. They are then free of any dirt and can be used more forcefully once they have been adjusted. To adjust the brakes, the two screws found on the brake should be loosened, so that the unit sits loosely on the handle bar and has room to move. The brakes should then be pressed so that the brake pad settles on the disk. While maintaining pressure on the brake, the unit can then be fastened once again. Check the brake to ensure a good braking function and thereafter it is ready for use.

If the brakes make a squeaking or rubbing noise, this can often be easily corrected by repeated performing a full brake at low speed (e.g. 25 km/h). Please do this with care!

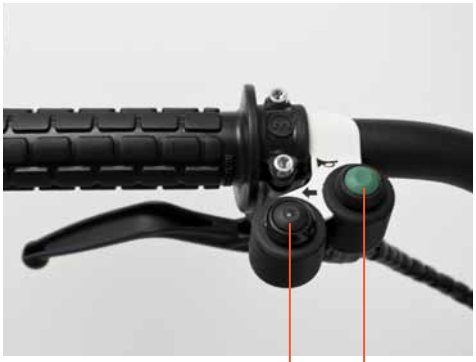
A high pitched noise from the brakes could indicate a deterioration of the brakes or some foreign matter (stone, dirt) in the brake. In case of doubt, please contact your service partner.

Attention: Service of the brakes may only be performed by an authorized service partner!

Control elements left/right

On the left side of the handlebars you will find the controls for the horn and the left blinker. There is also a rearview mirror on the left hand side of the handlebar. The controls can be adjusted if needed by loosening the two screws.

On the right hand side of the handlebar you will find the drive-mode control and the right blinker. These can also be adjusted by loosening the two screws. A mirror on the right hand side is usually not needed. However, they are available in our shop and can be easily mounted.



indicator (left) horn

driving mode indicator (right)

Display and gauges

„Power-Mode“ > Step 1- 45km/h full performance „Power“
„ECO-Mode“ » Step 2- 45km/h reduced performance
„City-Mode“ »» Step 3- 30km/h reduced speed „City“

Return the trip odometer to 000 by pushing the Mode button found above the right blinker with the side stand in the extended position. This should be recognized on the speed display as „stand“.

Start system

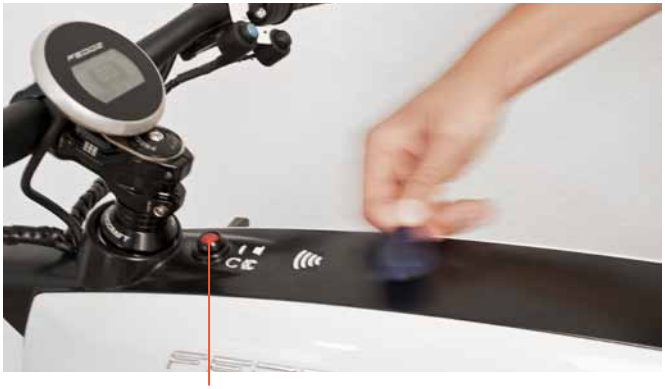
To start the FEDDZ one must first turn on the red power switch. The display will become active, the head lamp turns on, as does the rear lamp. For your safety these lights are always on when the bike is in use.

On the display, the speed, battery charge level, trip odometer and the drive mode will be seen. The diving mode display has 3 steps indicated with 3 arrows found in the lower-right portion of the display.

By pressing the mode control, one can change through the 3 steps. The last step selected will be saved. Further pressing the control will always select the next higher level.

For safety the FEDDZ has an electric anti-theft device. This can only be deactivated with the RFID chip.

To deactivate, just move the magnetic key over the frame immediately behind the red start switch. The FEDDZ is now ready for use and you can begin driving by pressing the accelerator.



Power switch

Startsystem

For your safety, you cannot start the FEDDZ when the kickstand is extended, since there is no motor noise and one could mistakenly press the accelerator. When the kickstand is extended and the main switch is on, the display will indicate „stand“.

Attention:
Please do not sit on the bike when it is resting on the kickstand, as it is not intended to carry additional weight!

By taking weight off the kickstand or rolling forwards, the kickstand will retract. Be careful of falling!

The kickstand must be extended again to prevent the bike from falling when not driving!

Attention:
The accelerator is immediately active as soon as the anti-theft device has been deactivated and the kickstand retracted!

While standing, there is no sound from the motor, so please use the accelerator only when you are sitting on the bike and ready to drive!

Suspension

You can manually adjust the suspension on the front fork by turning the ABS suspension system to the left towards plus for a softer ride, or in the other direction (minus) for a harder ride. The rear suspension has been given a standard setting and should only be adjusted by a professional service agent.

Seat position adjustment

Your optimal seat position can be adjusted by loosening the Allen screw below the seat and pulling the seat higher or pushing it lower. You have the perfect position when you sit comfortably on the FEDDZ with your feet able to lightly reach the ground.

Foot rests

The foot rests are already mounted on the rear wheel linkage. Here they are placed slightly to the rear given you a sporty position.

In case you prefer a more relaxed leg position, you can later place the foot rest in the forward position where it also positioned a bit lower.

Tires

The FEDDZ has a 26 inch (zoll) tire from Schwalbe with the name „Crazy Bob“. These ties are available in all bike shops or can be ordered. Changing the tires can be performed by your FEDDZ-service partner or in any reliable bike shop.

The recommended tire pressure is 3-4 Bar depending on your needs and preferences. The allowable pressures for the tire range from 2.5-4.5 bar.

Attention: Low tire pressure or worn out tires change the driving characteristics and can change the driving range dramatically!

Procedure when not in use for a longer time period

The following procedure should be used if the FEDDZ will not be driven for a longer period of time (e.g. during winter or as a display bike). The battery should have a charge between 60-80%. Too much charge can cause the battery to age more rapidly and too little charge may lead to a complete emptying of the charge and damage.

It is also recommended to remove the battery and place it where it has moderate temperature, where freezing temperatures are not found. This could be in a cellar or anywhere else without high humidity and stable temperature.

You should regularly check the charge level of the battery. To do this you need to mount the battery in the FEDDZ and turn it on. Be sure to not allow the charge level to fall below 30%. Should a large loss of battery capacity be noted while it is not being used, please contact your service partner.

Technical data/Guarantee

Accessories and Features:

- Cargo storage
- 2 belts with closures on the storage space
- Battery (Eco or Premium)
- Battery charger
- High performance-LED-headlamp from Philips
- LED rear light with integrated brake light
- LED blinkers both in front and back
- Display with data
- RFID- digital start system.
- Adjustable seat
- High quality aluminum handlebar
- Side stand with integrated anti-theft device
- Mud guard and license plate holder
- Anodized aluminum foot rest
- Side mirror (left)
- USB connector (optional)
- Bluetooth ready

Chassis/frame:

- Wheelbase: 1320 mm.
- Hand-finished aluminum frame
- Coul made from ABS platsic
- Cargo room size: 420 x 360 x 220 mm
- Tires: 26“ Schwalbe Crazy Bob
- Front suspension fork Manitou 80 mm excursion
- Disk brakes: Magura Hydraulik MT4
- Diameter of disk brakes: 180 mm
- Bike weight: 33,0 kg
- Battery weight Eco: 11,5 kg
- Battery weight Premium: 11,5 kg
- Maximal allowable weight: 173 kg

Technical data/Guarantee

Motor:

- Rear wheel hub electric motor (brushless)
- Normal Power 2 KW / Peak Power: up to 4 KW
- Speeds: 25 km/h oder 45 km/h
- Torque: 60 Nm
- 3 driving options, selected using handlebar controller

Batterie Eco/Premium:

- Approximately 70 km driving range* (Eco)
- Approximately 110 km driving range* (Premium)
- Lithium-Ion 48 V
- 31,5 Ah / ca. 1600 Wh (Eco)
- 40,5 Ah / ca. 2100 Wh (Premium)
- Max. 5.5h charge time with 6A charger (ECO)
- Max. 7h charge time with 6A charger (Premium)
- High quality BMS prepared for Bluetooth
- Battery box removable or lockable on bike

Guarantee:

In case of a guarantee claim, please notify us immediately to describe the defect or possible source of the problem. Following this assessment, if needed we will arrange for the pickup of the FEDDZ for its return to us for inspection at no cost. For this purpose please retain the carton used for delivery to protect the FEDDZ during shipment.

Contact and Partners

emo-bike GmbH & Co. KG

Fabrikstrasse 15
88400 Biberach an der Riss
Germany

Tel: +49 (0)7351 53904001
Fax: +49 (0)7351 53904009

info@emo-bike.de
www.feddz.de

GreenRoad GmbH

Polan 32
9815 Kolbnitz
Austria

Tel: +43 (0) 676 9755525

beratung@greenroad.at
www.greenroad.at

© Copyright- emo-bike GmbH und Co. KG 2013